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| At what rate are the tectonic plates moving? | cm per year | What is the function of a pollen tube? |
| What processes make metamorphic rock? | heat and pressure | creates a pathway for the pollen to travel from the stigma to the ovule |
| What processes make sedimentary rock? | weathering and erosion; cementation and compaction | What is the function of the stigma? |
| What processes make igneous rock? | cooling and solidifying of magma | uses a sticky substance to provide a place for the pollen to land |
| What is the function of the mitochondria? | respiration | Once fertilization occurs, what do the ovary and ovule become? |
| What is the function of the chloroplast? | photosynthesis | the ovary becomes the fruit and the ovule becomes the seed |
| What is the function of the endoplasmic reticulum? | to provide a pathway for protein travel | What is the chemical formula for photosynthesis? |
| What is the function of the Golgi complex? | coding and packaging of proteins | $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{SLE} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ |
| What is the function of the ribosomes? | using RNA to make proteins | What is the chemical formula for respiration? |
| What is the function of the centrioles in an animal cell? | provides structure and plays an integral role in cell division | $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow \text{ATP} + 6\text{CO}_2 + 6\text{H}_2\text{O}$ |

By what process does oxygen transfer from the lungs into red blood cells?

diffusion

Which blood vessels carry oxygen rich blood from the lungs out to the body?

arteries

Which blood vessels carry oxygen poor blood from the body back to the lungs?

veins

Why do our red blood cells have to carry carbon dioxide back to our lungs from our cells and tissues?

because respiration creates carbon dioxide as a waste product which is poisonous to our body.

What does a homozygous dominant genotype look like?

two capital letters

What does a homozygous recessive genotype look like?

two lower case letters

What does a heterozygous genotype look like?

one capital and one lower case letter

What is a phenotype?

the physical expression of a genotype